

Things to Know, Understand and Do For Chapter 2: Basic Building Materials

By the end of Chapter 2, you should

Know how to...
Explain the significance of a chemical formula
How to decipher basic chemical names and symbols
Define the terms element, compound, and aqueous
Decipher whether something is an element or compound
Tell when a chemical reaction has taken place as well whether it was exothermic or endothermic
Appreciate the difference between pure substances and mixtures and the difference between homogeneous and heterogeneous mixtures
Classify the 3 types of mixtures (suspensions, solutions, and colloids)
Explain the difference between chemical and physical changes and give examples of them.
Describe a basic chemical reaction (4 lines of evidence)
Explain the roles of Mendeleev development of the periodic table
Describe the difference of a group or a period
Describe the modern periodic table, giving properties of elements belonging to groups 1, 2, 17, 18, transition, and rare earth metals
Locate and name the four blocks on the periodic table, as well as the alkali metals, alkaline earth metals, halogens, and the noble gases

understand...
The Law of Conservation of Matter
How the periodic table was organized
The patterns related to elemental properties
How Mendeleev arranged his table, and how he was able to predict the existence and properties of undiscovered elements

Ch 2 Homework

Due the day before the test. Must be completed neatly. Use full sentences and/or show all work in calculations for full credit where applicable. This assignment may be passed in anytime before the test though. Students may also elect to pass in questions in smaller chunks during the course of our coverage of the chapter if that is more conducive to their learning style.

Read Chapter 2 (p 22 – 49)

Do the following problems:

pg 26 Q 1, 3, 6
pg 30 Q 1, 5
pg 40 Q 2, 5,
pg 48 Q 1, 4, 6, 8
pg 49 Q 4